Clean copies of the claims as amended in this document are provided below — following the signature page.

Kindly change claims 3 through 5, and claims 7, 66 and 67; and also add new claims 80 through 96, all to read as follows, newly inserted words being presented underscored, thus, and deleted words being presented in square brackets [thus]. For the Examiner's convenience, the new claims are inserted in the claim sequence at the points where proposed — namely, new 80 through 86 following claim 2; new 87 and 88 following claim 7; and 89 through 96 following 73.

80. (new, to follow claim 2) The projector of claim 2, further comprising:

means for also incorporating blue and green laser light into the picture beam; and

separate, additional reflective liquid-crystal light valves for modulating the blue and green light respectively.

81. (new, to follow claim 80) The projector of claim 80, wherein:

said light valve also receives blue and green laser light for modulation, within the same light valve.

82. (new, to follow claim 81) The projector of claim 2, further comprising:

means for scanning the beam across a face of the light valve during projection of each image, rather than flooding the entire face substantially simultaneously.

83. (new, to follow claim 82) The projector of claim 82, further comprising:

means for also incorporating blue and green laser light into the picture beam; and

separate, additional reflective liquid-crystal light valves for modulating the blue and green light respectively.

84. (new, to follow claim 83) The projector of claim 82, wherein:

said light valve also receives blue and green laser light for modulation, within the same light valve.

85. (new, to follow claim 84) The projector of claim 82, wherein:

the laser apparatus comprises no solid-state lasers, but rather exclusively lasers of gas type.

86. (new, to follow claim 85) The projector of claim 2, wherein:

the laser apparatus comprises no solid-state lasers, but rather exclusively lasers of gas type.

3. The projector of claim 86 [1], wherein:

said apparatus projects a beam of wavelength between about 635 and 650 nanometers.

4. (amended) The projector of claim 1, wherein:

said apparatus projects a beam of wavelength substantially [about] 647 nanometers.

5. The projector of claim 4 [1], wherein:

the image is a moving picture.

7. The projector of claim 6, wherein:

the further laser apparatus projects substantially cyan native laser light with the blue or green light, or both.

87. (new, to follow claim 7) The projector of claim 6, further comprising:

means for also incorporating the blue and green laser light into the picture beam; and

separate, additional reflective liquid-crystal light valves for modulating the blue and green light respectively.

88. (new, to follow claim 87) The projector of claim 6, wherein:

said light valve also receives the blue and green laser light for modulation, within the same light valve.

66. (amended) A laser projection system for forming an image on an irregular projection medium having portions at distinctly differing distances from the projector; said system comprising:

laser apparatus for projecting a picture beam that includes laser light;

a liquid-crystal light valve for impressing an image onto the beam; and

means for projecting the beam from the light valve, with said impressed image, onto such irregular projection medium as a show for an audience.

67. The system of claim 66, wherein:

the irregular projection medium comprises one or more projection media [is] selected from the group consisting of:

an interior of a dome, or other building having internal surfaces that are not generally normal to a projection direction,

an exterior of a dome, sculpture, monument, or other structure having external surfaces that are not generally normal to a projection direction,

a waterfall,

a water fountain,

fog or a cloud,

ice,

a scrim in front of a curtain or screen,

a plurality of scrims in optical series,

one or more trees,

grass, vines or other foliage,

a hillside or other landscape, or other receding surface, and

an array of people or other animals or other discrete objects, or combinations thereof, at diverse distances from the projecting means; and

the projecting means display a protracted show on the one or more projection media, for the audience.

89. (new, to follow claim 73) The projector of claim 66:

wherein the laser apparatus projects red laser light in the picture beam; and

the light valve impresses red components of an image onto the red laser light; and

further comprising:

means for also incorporating blue and green laser light into the picture beam, and

separate, additional liquid-crystal light valves for respectively impressing blue and green components of the image onto the blue and green light.

90. (new, to follow claim 89) The projector of claim 66, wherein:

said light valve receives laser light components of three respective colors and impresses corresponding color components of the image onto the three respective light components, respectively, all within the same light valve.

91. (new, to follow claim 90) A laser projection system for forming an image on an irregular projection medium having portions at distinctly differing distances from the projector; said system comprising:

laser apparatus for projecting a picture beam that includes laser light;

a liquid-crystal light valve for impressing an image onto the beam; and

means for projecting the beam from the light valve, with said impressed image, onto such irregular projection medium to form a substantially sharp image on such medium at such distinctly differing distances.

92. (new, to follow claim 91) The system of claim 91, wherein:

the irregular projection medium comprises one or more projection media selected from the group consisting of:

an interior of a dome, or other building having internal surfaces that are not generally normal to a projection direction,

an exterior of a dome, sculpture, monument, or other structure having external surfaces that are not generally normal to a projection direction,

a waterfall,

a water fountain,

fog or a cloud,

ice,

a scrim in front of a curtain or screen,

a plurality of scrims in optical series,

one or more trees,

grass, vines or other foliage,

a hillside or other landscape, or other receding surface, and

an array of people or other animals or other discrete objects, or combinations thereof, at diverse distances from the projecting means; and

the projection means form the substantially sharp image on substantially each element of the selected one or more media.

93. (new; to follow claim 92) A laser projector comprising:

laser apparatus for projecting a picture beam that includes visible laser light of wavelength longer than 640 nanometers; and

a reflective liquid-crystal light valve for modulating the beam with a desired image.

94. (new; to follow claim 93) The projector of claim 93, wherein:

said apparatus projects a beam of wavelength substantially 647 nanometers.

95. (new, to follow claim 86) The projector of claim 93:

wherein the light valve impresses red components of an image onto the laser light of wavelength longer than 640 nanometers; and

further comprising:

means for also incorporating blue and green laser light into the picture beam, and

separate, additional liquid-crystal light valves for respectively impressing blue and green components of the image onto the blue and green light.

96. (new, to follow claim 95) The projector of claim 93, wherein:

said light valve receives laser light components of three respective colors and impresses corresponding color components of the image onto the three respective light components, respectively, all within the same light valve.

CLEAN COPIES of the amended AND NEW claims:

80. (new, to follow claim 2) The projector of claim 2, further comprising:

means for also incorporating blue and green laser light into the picture beam; and

separate, additional reflective liquid-crystal light valves for modulating the blue and green light respectively.

81. (new, to follow claim 80) The projector of claim 80, wherein:

said light valve also receives blue and green laser light for modulation, within the same light valve.

82. (new, to follow claim 81) The projector of claim 2, further comprising:

means for scanning the beam across a face of the light valve during projection of each image, rather than flooding the entire face substantially simultaneously.

83. (new, to follow claim 82) The projector of claim 82, further comprising:

means for also incorporating blue and green laser light into the picture beam; and

separate, additional reflective liquid-crystal light valves for modulating the blue and green light respectively.

84. (new, to follow claim 83) The projector of claim 82, wherein:

said light valve also receives blue and green laser light for modulation, within the same light valve.

85. (new, to follow claim 84) The projector of claim 82, wherein:

the laser apparatus comprises no solid-state lasers, but rather exclusively lasers of gas type.

86. (new, to follow claim 85) The projector of claim 2, wherein:

the laser apparatus comprises no solid-state lasers, but rather exclusively lasers of gas type.

3. The projector of claim 86, wherein:

said apparatus projects a beam of wavelength between about 635 and 650 nanometers.

4. (amended) The projector of claim 1, wherein:

said apparatus projects a beam of wavelength substantially 647 nanometers.

5. The projector of claim 4, wherein:

the image is a moving picture.

7. The projector of claim 6, wherein:

the further laser apparatus projects substantially cyan native laser light with the blue or green light, or both.

87. (new, to follow claim 7) The projector of claim 6, further comprising:

means for also incorporating the blue and green laser light into the picture beam; and

separate, additional reflective liquid-crystal light valves for modulating the blue and green light respectively.

88. (new, to follow claim 87) The projector of claim 6, wherein:

said light valve also receives the blue and green laser light for modulation, within the same light valve.

66. (amended) A laser projection system for forming an image on an irregular projection medium having portions at distinctly differing distances from the projector; said system comprising:

laser apparatus for projecting a picture beam that includes laser light;

a liquid-crystal light valve for impressing an image onto the beam; and

means for projecting the beam from the light valve, with said impressed image, onto such irregular projection medium as a show for an audience.

67. The system of claim 66, wherein:

the irregular projection medium comprises one or more projection media selected from the group consisting of:

an interior of a dome, or other building having internal surfaces that are not generally normal to a projection direction,

an exterior of a dome, sculpture, monument, or other structure having external surfaces that are not generally normal to a projection direction,

a waterfall,

a water fountain,

fog or a cloud,

ice,

a scrim in front of a curtain or screen,

a plurality of scrims in optical series,

one or more trees,

grass, vines or other foliage,

a hillside or other landscape, or other receding surface, and

an array of people or other animals or other discrete objects, or combinations thereof, at diverse distances from the projecting means; and

the projecting means display a protracted show on the one or more projection media, for the audience.

89. (new, to follow claim 73) The projector of claim 66:

wherein the laser apparatus projects red laser light in the picture beam; and

the light valve impresses red components of an image onto the red laser light; and

further comprising:

means for also incorporating blue and green laser light into the picture beam, and

separate, additional liquid-crystal light valves for respectively impressing blue and green components of the image onto the blue and green light.

90. (new, to follow claim 89) The projector of claim 66, wherein:

said light valve receives laser light components of three respective colors and impresses corresponding color components of the image onto the three respective light components, respectively, all within the same light valve.

91. (new, to follow claim 90) A laser projection system for forming an image on an irregular projection medium having portions at distinctly differing distances from the projector; said system comprising:

laser apparatus for projecting a picture beam that includes laser light;

a liquid-crystal light valve for impressing an image onto the beam; and

means for projecting the beam from the light valve, with said impressed image, onto such irregular projection medium to form a substantially sharp image on such medium at such distinctly differing distances.

92. (new, to follow claim 91) The system of claim 91, wherein:

the irregular projection medium comprises one or more projection media selected from the group consisting of:

an interior of a dome, or other building having internal surfaces that are not generally normal to a projection direction,
an exterior of a dome, sculpture, monument, or other structure having external surfaces that are not generally normal to a projection direction,
a waterfall,
a water fountain,
fog or a cloud,
ice,
a scrim in front of a curtain or screen,
a plurality of scrims in optical series,
one or more trees,
grass, vines or other foliage,
a hillside or other landscape, or other receding surface, and
an array of people or other animals or other discrete objects, or combinations thereof, at diverse distances from the projecting means; and

the projection means form the substantially sharp image on substantially each element of the selected one or more media.

93. (new; to follow claim 92) A laser projector comprising:

laser apparatus for projecting a picture beam that includes visible laser light of wavelength longer than 640 nanometers; and

a reflective liquid-crystal light valve for modulating the beam with a desired image.

94. (new; to follow claim 93) The projector of claim 93, wherein:

said apparatus projects a beam of wavelength substantially 647 nanometers.

95. (new, to follow claim 86) The projector of claim 93:

wherein the light valve impresses red components of an image onto the laser light of wavelength longer than 640 nanometers; and

further comprising:

means for also incorporating blue and green laser light into the picture beam, and

separate, additional liquid-crystal light valves for respectively impressing blue and green components of the image onto the blue and green light.

96. (new, to follow claim 95) The projector of claim 93, wherein:

said light valve receives laser light components of three respective colors and impresses corresponding color components of the image onto the three respective light components, respectively, all within the same light valve.